

SLOVENSKI STANDARD

SIST EN 23823-2:2000

01-januar-2000

Dental rotary instruments - Part 2: Steel and carbide finishing burs (ISO 3823-2:1986)

Dental rotary instruments - Part 2: Steel and carbide finishing burs (ISO 3823-2:1986)

Zahnärztliche rotierende Instrumente - Teil 2: Stahl- und Hartmetallfinierer (ISO 3823-2:1986)

Instruments rotatifs dentaires - Partie 2: Fraises à finir en acier et carbure (ISO 3823-2:1986)

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Ta slovenski standard je istoveten z: EN 23823-2:1991

ICS:

11.060.25 Zobotehnični instrumenti Dental instruments

SIST EN 23823-2:2000

en

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EUROPEAN STANDARD

EN 23823-2:1991

NORME EUROPEENNE

EUROPAISCHE NORM

July 1991

UDC 615.472-034:616.314-089:658.562

Descriptors: Dentistry, dental instrument, rotierendes dental
instrument, burs(dental), steels, carbides,
specifications, dimensions, quality control

English version

Dental rotary instruments - Part 2: Steel and
carbide finishing burs (ISO 3823-2:1986)

Instruments rotatifs dentaires - Partie 2: Fraises à finir en acier et carbure
(ISO 3823-2:1986) Zahnärztliche rotierende Instrumente -
Teil 2: Stahl- und Hartmetallfinierer
(ISO 3823-2:1986)

This European Standard was approved by CEN on 1991-07-23 and is identical to the ISO standard as referred to.
CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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Foreword

This European Standard has been taken over by CEN/TC 55 "Dental products" from the work of ISO/TC 106 "Dentistry" of the International Organization for Standardization (ISO).

CEN/TC 55 decided to submit this document to the CEN members for voting by the Unique Acceptance Procedure (UAP). The result was positive.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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The text of the International Standard ISO 3823-2:1986 was approved by CEN as a European Standard without any modification.

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International Standard



3823/2

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Dental rotary instruments — Part 2 : Steel and carbide finishing burs

Instruments rotatifs dentaires — Partie 2 : Fraises à finir en acier et carbure

First edition — 1986-02-15

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UDC 616.314-7

Ref. No. ISO 3823/2-1986 (E)

Descriptors : dentistry, dental instruments, dental rotary-cutting instruments, burs (dental), specifications, dimensions, quality control.

Price based on 14 pages

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 3823/2 was prepared by Technical Committee ISO/TC 106, *Dentistry*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Dental rotary instruments —

Part 2 : Steel and carbide finishing burs

0 Introduction

This International Standard is one of a series of standards relating to dental rotary instruments. It consists of two parts :

Part 1 : Steel and carbide burs.

Part 2 : Steel and carbide finishing burs.

The various dimensional and other requirements specified for steel and carbide finishing burs are those considered important to ensure the interchangeability of these instruments.

Attention is drawn to ISO 6360 which specifies a 15-digit number for the identification of dental rotary instruments of all types.

1 Scope and field of application

This part of ISO 3823 specifies dimensions of, and requirements for, the twelve most commonly used forms of steel and carbide finishing burs. It is envisaged to extend the scope of this International Standard to cover other forms of burs.

Other characteristics of bur heads, for example spiralled blades, cross-cut, are not covered by this International Standard. These will be dealt with in a future International Standard.

2 References

ISO 1797, *Dental rotary instruments — Shanks.*

ISO 2157, *Dental rotary instruments — Nominal sizes and designation.*

ISO 6360, *Dental rotary instruments — Number coding system.*

ISO 8325, *Dental rotary instruments — Test methods.*

3 Classification

Dental finishing burs shall be classified, according to the material of the working part, into the following two types :

— Type 1 : Steel finishing burs

— Type 2 : Carbide finishing burs

4 Symbols

d_1 diameter of the working part, head diameter

d_2 neck diameter

l_1 length of the working part, head length

l_2 overall length

5 Material

The shaft shall be made of steel or other suitable material. The working parts of steel finishing burs shall be made of steel and those of carbide finishing burs of tungsten carbide.

The selection of the type of material and the treatment shall be left to the discretion of the manufacturer.

6 Dimensions and number of blades

All dimensions are in millimetres.

The dimensions, determined as described in ISO 8325, shall be as specified in the tables and shown in figures 1 to 12.

For the overall length, see clause 7.

Shank types 1, 2 or 3 shall be in accordance with ISO 1797.

A dash in a column of a table indicates that the particular size is not available.

ISO 3823/2-1986 (E)

6.1 Round head

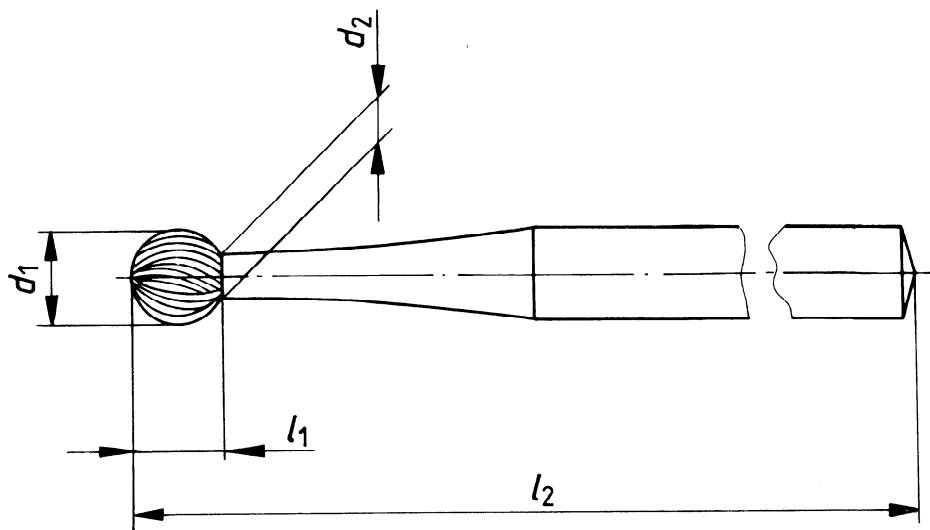


Figure 1

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Table 1 — Dimensions and number of blades

Nominal size	d_1	l_1 min.			Number of blades min.	
		Type 1	Type 2	max.	Type 1	Type 2
008	$0,8 \pm 0,08$	0,58	—	0,64	10	—
010	$1,0 \pm 0,08$	0,73	0,65	0,78	12	12
012	$1,2 \pm 0,08$	0,90	0,79	0,88	14	12
014	$1,4 \pm 0,10$	1,08	0,82	0,98	16	12
016	$1,6 \pm 0,10$	1,26	—	1,04	16	—
018	$1,8 \pm 0,10$	1,46	1,26	1,12	16	12
021	$2,1 \pm 0,10$	1,71	—	1,20	20	—
023	$2,3 \pm 0,10$	1,89	1,60	1,29	20	12
025	$2,5 \pm 0,10$	2,05	—	1,40	20	—
027	$2,7 \pm 0,10$	2,23	1,95	1,48	22	12
029	$2,9 \pm 0,10$	2,39	—	1,60	22	—
031	$3,1 \pm 0,10$	2,53	2,44	1,68	24	22
033	$3,3 \pm 0,10$	2,72	—	1,78	26	—
035	$3,5 \pm 0,10$	2,92	—	1,82	28	—
037	$3,7 \pm 0,10$	3,09	—	1,92	30	—
040	$4,0 \pm 0,10$	3,40	—	2,06	32	—
042	$4,2 \pm 0,10$	3,51	—	2,16	32	—
045	$4,5 \pm 0,10$	3,80	—	2,16	32	—
047	$4,7 \pm 0,10$	3,97	—	2,24	36	—
050	$5,0 \pm 0,10$	4,25	—	2,32	36	—

6.2 Bud

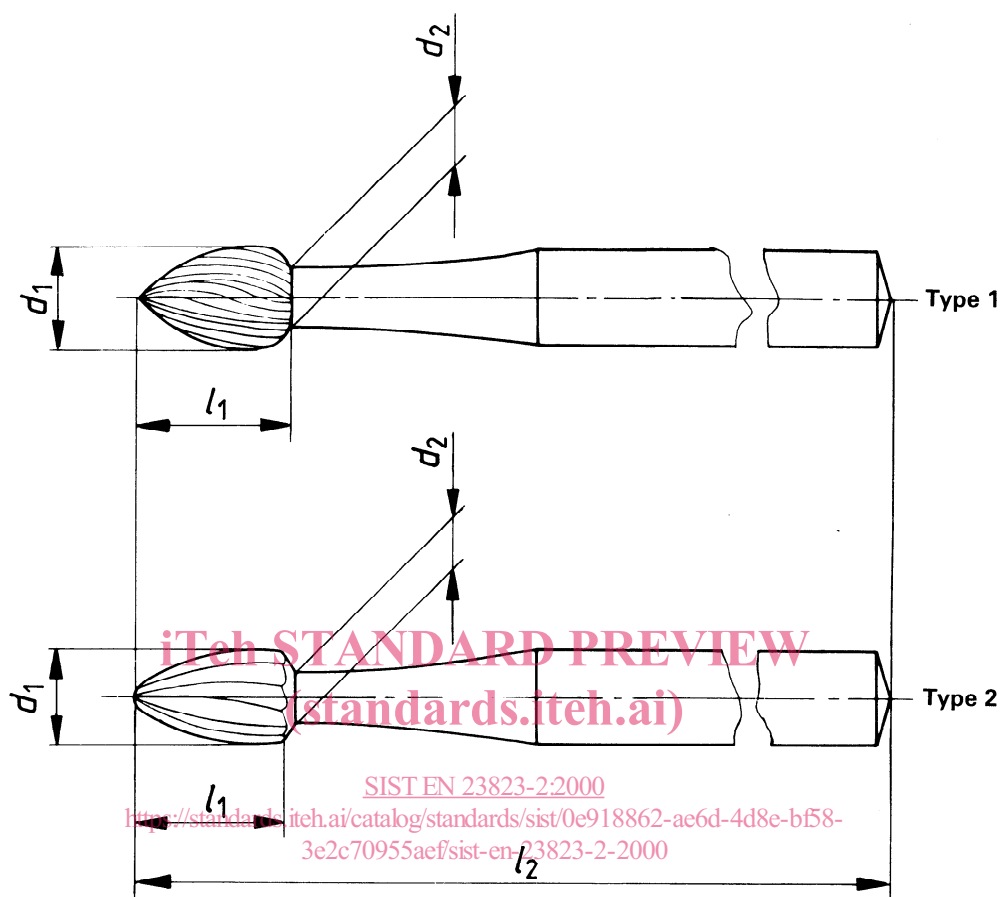


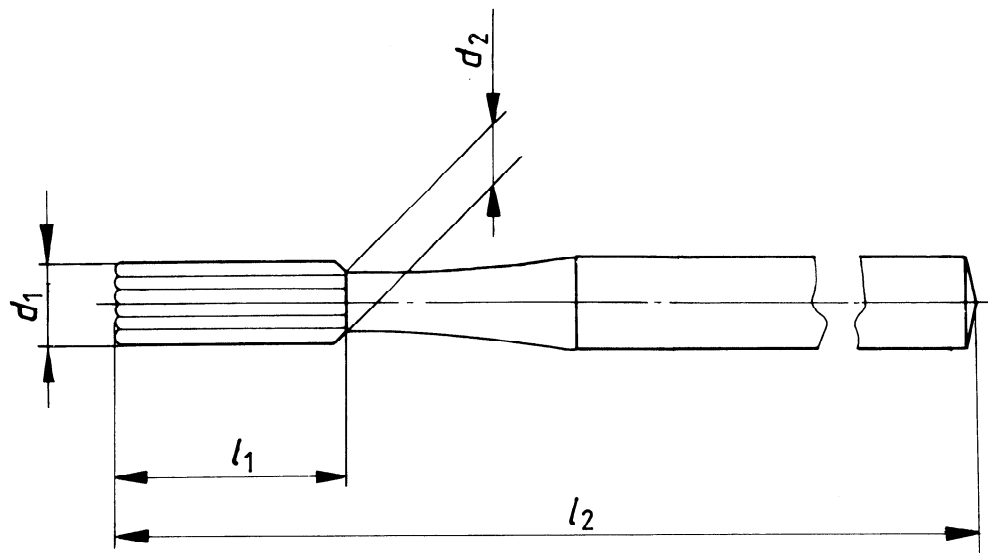
Figure 2

Table 2 — Dimensions and number of blades

Nominal size	d_1 $\pm 0,08$	l_1 min.		d_2 max.	Number of blades min.	
		Type 1	Type 2		Type 1	Type 2
010	1,0	1,10	—	0,78	12	—
012	1,2	1,40	—	0,88	14	—
014	1,4	1,70	3,0	0,98	14	10
016	1,6	2,00	—	1,04	16	—
018	1,8	2,35	3,3	1,12	16	10
021	2,1	2,75	—	1,20	20	—
023	2,3	3,05	3,9	1,29	20	10

ISO 3823/2-1986 (E)

6.3 Cylindrical

Taper angle of the head $< 2^\circ$

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Figure 3

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Table 3 — Dimensions and number of blades

Nominal size	d_1 $\pm 0,08$	l_1 min.		d_2 max.	Number of blades min.	
		Type 1	Type 2		Type 1	Type 2
008	0,8	3,3	—	0,88	10	—
010	1,0	3,8	3,7	1,08	12	10
012	1,2	3,8	3,7	1,28	14	10
014	1,4	4,3	4,1	1,35	14	10
016	1,6	4,3	—	1,50	16	—
018	1,8	4,8	—	1,60	16	—
021	2,1	4,8	—	1,70	20	—
023	2,3	5,3	5,0	1,80	20	18

6.4 Flame

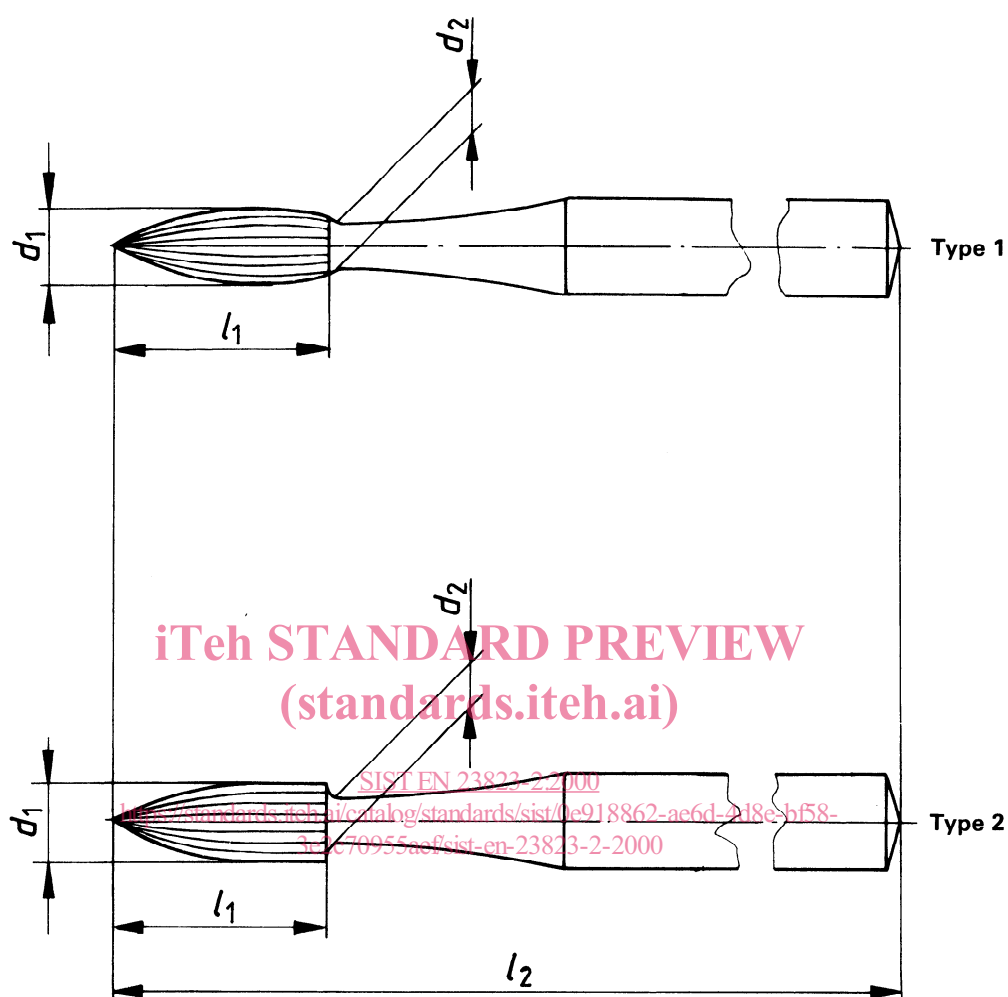


Figure 4

Table 4 — Dimensions and number of blades

Nominal size	d_1 $\pm 0,08$	l_1 min.		d_2 max.	Number of blades min.	
		Type 1	Type 2		Type 1	Type 2
010	1,00	3,8	3,2	0,86	12	10
012	1,20	3,8	3,7	0,96	14	10
014	1,40	4,3	3,7	1,00	14	14
016	1,60	4,3	4,1	1,05	16	16
018	1,80	4,8	—	1,15	16	—
021	2,10	4,8	—	1,20	20	—
023	2,30	5,3	—	1,30	20	—